Draft: Integration of Habitat Actions to Address Process,

Function & Structure in North Lake Washington Tributaries - Tier 1 Subareas Process: Forests, wetlands, floodplains, and riparian buffers provide critical hydrologic processes that temper high flows, flashiness, and erosion; maintain base flows; protect water quality and water temperature. Process: Headwater areas, wetlands, and sources Functions Provided Water quality of groundwater (e.g., seeps and springs) maintain Water quantity temperature and hydrologic integrity. Habitat Functions Provided: Water quality Land Use: Protect forest cover, minimize increases in impervious Water quantity surfaces and road crossings through incentives and regulations (including stormwater and critical areas ordinances); encourage Land Use: Protect or restore headwater areas such as Cold Creek low impact development. Natural area, forest cover, wetlands, and groundwater sources through incentives and regulations to provide long-term protection Site-Specific Actions: Purchase property or easements to protect parcels that include forests, floodplains, and riparian buffers. and improvements. Site-Specific Actions: Acquire land or conservation easements Public Education: Promote public awareness of alternatives to to protect key areas that contribute to basin-wide water quality and hydrologic integrity. impervious materials and effect of impervious surfaces on water quality and water quantity. Public Education: Increase public awareness of importance of these key areas in salmon production throughout subwatershed. Process: Natural sediment recruitment, storage, and transport processes support spawning gravel deposition and maintenance, as well as processes that support pool and riffle creation. Functions Provided: Water quality Land Use: Adopt stormwater management practices Process: Spawning areas in Bear that reduce sediment inputs from bed-scouring high flows, and from non-point sources, including sand on Creek are a significant source of productivity and abundance for the North Lake Washington Site-Specific Actions: Construct LWD jams at strategic locations to reduce erosion. Plant Chinook population and should be protected. native riparian vegetation to restore riparian corridor and increase bank stability Functions Provided: Water quality Public Education: Promote understanding of Water quantity link between fine sediments, metals Habitat (particularly those in household items), and Land Use: Continue to enforce 65/10 water quality for salmon. provisions, and aquatic buffers. Site-Specific Actions: Acquire land or conservation easements to protect spawning areas, particularly in Upper Bear and Cottage Lake Creek. Public Education: Promote water conservation and reduced residential chemical uses to increase public awareness of linkages between home water use, stormwater run-off, and stream conditions. **Process: Channel connectivity** (e.g., off-channel habitat) and Process: Adequate stream flows contributes to channel stability allow upstream migration and development of pools. Large and spawning. woody debris also traps sediments, Functions Provided: Water quantity increases channel stability, and Land Use: Provide long-term protection of

adequate flows by addressing impact of water withdrawals (illegal, legal, exempt)

Site-Specific Actions: Remove channel constrictions that limit groundwater

Public Education: Promote awareness of the need for year-round water conservation in order to keep water in streams.

complexity (e.g., large woody debris) reduces water temperature.

Functions Provided: Water Quality Habitat

Land Use: Maintain and effectively enforce

current aquatic-area buffers to restore the long-term natural sources of LWD.

Site-Specific Actions: Construct LWD jams at strategic locations to address lack of natural LWD sources. Plant native riparian vegetation to restore riparian corridor.

Public Education: Promote understanding of link between trees today and fish habitat tomorrow.

This graphic illustrates representative sample of actions. It does not include all proposed actions.

Green: denotes adjacent land use and public education actions in the immediate vicinity of water or key habitats (e.g., wetlands) where regulations/incentives coupled with public education can protect or restore water quality or quantity, and habitat conditions. In the short- and long-term, land use actions in these areas have a major effect on aquatic habitat conditions and the processes that create and maintain that habitat.

Blue: denotes areas along water bodies where site-specific actions are proposed to protect or restore specific stream reaches. Such actions may protect or restore habitat functions, or address symptoms of degraded habitat functions, and are supported by land use and public education actions that protect habitat processes and functions throughout the watershed.

Gray: denotes areas where broader land use and public education actions are proposed throughout the watershed. Responsible land stewardship and low impact development protect and maintain natural flow regimes and water quality.

Examples of Site-Specific Project Recommendations

Restoration By Reach

- 餐 Add LWD as Opportunities Arise
- Restore, Replant Riparian Vegetation

Protection By Reach

- Reforest Cleared Areas
- Protect Riparian Habitat Through Acquisition
- Protect Headwaters and Springs
- Protect Large/Public Parcel of Land



